## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Claims:

1. (Currently Amended) A ligand conjugate comprising a linker compound and a sugar chain bound to each other via an aromatic amino group,

the linker compound having a structure represented by General Formula (1):

$$X \longrightarrow Z \longrightarrow \begin{pmatrix} H & C & H_2 \\ N & C & Q \end{pmatrix}_{p} Y \qquad \cdots (1)$$

where p and q are independently integers of not less than 0 but not more than 6, in which

X is a structure comprising one, two, or three hydrocarbon derivative chains which have the aromatic amino group at an end and may have a carbon-nitrogen bond in a main chain represented by formula 3:

wherein m<sup>4</sup> and m<sup>5</sup> are each independently integers of not less than 1 but not more than 6, and R' is a hydrogen (H) or R,

Y is a sulfur atom or a hydrocarbon structure containing a sulfur atom having an S-S bond or an S-H group, and

Z is a straight-chain structure comprising a carbon-carbon bond or carbon-oxygen bond, and

R comprises a substituent derived from the sugar chain being selected from the group consisting of Group (110) (101):

- 2. (Cancelled).
- 3. (Withdrawn) The ligand conjugate as set forth in Claim 1 or 2, wherein:

X has a structure represented by General Formula (2):

$$R - N - R'$$
 $H = 0$ 
 $H = 0$ 

where m<sup>1</sup>, m<sup>2</sup>, and m<sup>3</sup> are independently integers of not less than 0 but not more than 6, and R' is a hydrogen (H) or R,

R being a compound derived from the sugar chain selected from Group (101).

- 4. (Cancelled).
- 5. (Withdrawn) The ligand conjugate as set forth in 1 or 2, wherein:

X has a structure represented by General Formula (4):

where R' is a hydrogen (H), or R,

R being a compound derived from the sugar chain selected from Group (101).

6. (Currently Amended) The ligand conjugate as set forth in Claim 1 or 2 of claim 1, wherein:

Z has a structure of Formula (5) or (6):

$$-\left(-C^{\frac{H_2}{n^1}}\right)^{\frac{1}{n^1}}$$
 ...(5)

$$--C - (-OCH_2CH_2 - )_{n^2} - \cdots (6)$$

where n<sup>1</sup> and n<sup>2</sup> are independently integers of not less than 1 but not more than 6.

7. (Currently Amended) The ligand conjugate as set forth in Claim 1 having: a structure represented by General Formula (107):

where m<sup>1</sup>, m<sup>2</sup>, and m<sup>3</sup> are independently integers of not less than 0 but not more than 6, n<sup>1</sup> is an integer not less than 1 but not more than 6, and R' is a hydrogen (H) or R;

a structure represented by General Formula (108):

where m<sup>4</sup> and m<sup>5</sup> are independently integers of not less than 0 but not more than 6, n<sup>1</sup> is an integer of not less than 1 but not more than 6., and R' is a hydrogen (H) or R;

a structure represented by General Formula (109):

where n<sup>1</sup> and q are independently integers of not less than 0 but not more than 6, and R' is a hydrogen (H) or R;

a structure represented by General Formula (110):

where n<sup>2</sup> is an integer of not less than 1 but not more than 6, and R' is a hydrogen (H) or R;

a structure represented by General Formula (111):

where n<sup>4</sup> is an integer of not less than 1 but not more than 6, and R' is a hydrogen (H) or R,

- R being a compound derived from the sugar chain selected from Group (101).
- 8. (Currently Amended) A ligand carrier in which the ligand conjugate as set forth in any one of Claims 1 to 7 1 or 6-7 is immobilized on a supporter support having a metal on a surface thereof.
  - 9. (Cancelled).
  - 10. (Currently Amended) A method for analyzing protein, comprising:

allowing the ligand conjugate as set forth in any one of Claims 1 to 7 1 and 6-8 to stand in contact with a supporter support so as to prepare a ligand carrier in which the ligand conjugate is immobilized on the supporter support;

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analyzing intermolecular interaction by surface plasmon resonance (SPR) after allowing the ligand carrier to stand in contact with a protein solution; and

performing mass spectroscopy after the analysis of the intermolecular interaction, so as to identify a protein bound on the ligand carrier.

- 11. (New) The ligand conjugate as set forth in Claim 1, wherein m<sup>4</sup> and m<sup>5</sup> are each 2.
- 12. (New) A method for analyzing protein, comprising:

allowing the ligand carrier of claim 8 to stand in contact with a protein solution, and analyzing intermolecular interaction by SPR measurement.